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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/873,645	06/04/2001	Paul D. Taylor	P-633	4460
25732	7590 05/15-2003			
KEITH JOHNSON, ESQ. TRANSGENOMIC, INC. 12325 EMMETT STREET			EXAMINER	
			SHEINBERG, MONIKA B	
OMAHA, NE 68164			ART UNIT	PAPER NUMBER
			1634	
			DATE MAILED: 05/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Appli	cation No.	Applicant(s)
		73,645	TAYLOR ET AL.
Office Action Summa	Exam	niner	Art Unit
	Monik	ka B Sheinberg	1634
The MAILING DATE of this co Period for Reply	mmunication appears of	n the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM - Extensions of time may be available under the pr after SIX (6) MONTHS from the mailing date of the - If the period for reply specified above is less than - If NO period for reply is specified above, the max - Failure to reply within the set or extended period - Any reply received by the Office later than three rearned patent term adjustment. See 37 CFR 1.7 Status	MMUNICATION. rovisions of 37 CFR 1.136(a). In this communication. n thirty (30) days, a reply within the kimum statutory period will apply a for reply will, by statute, cause the months after the mailing date of the status of the status of the status.	no event, however, may a e statutory minimum of thi and will expire SIX (6) MO e application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communicatio	n(s) filed on		
2a) This action is FINAL .	2b)☐ This actio	on is non-final.	
3) Since this application is in co closed in accordance with the Disposition of Claims			atters, prosecution as to the merits is .D. 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1-27</u> is/are pending i	in the application		
4a) Of the above claim(s)	• •	n consideration	
5) Claim(s) is/are allowed		r consideration.	
6) Claim(s) is/are rejected			
7) Claim(s) is/are objected			
8) Claim(s) 1-27 are subject to re		n requirement.	
Application Papers		,	
9)☐ The specification is objected to	by the Examiner.		
10)☐ The drawing(s) filed on i	s/are: a)□ accepted or t	o) objected to by	the Examiner.
Applicant may not request that a	any objection to the drawin	ng(s) be held in abey	ance. See 37 CFR 1.85(a).
11) The proposed drawing correction	on filed on is: a)[☐ approved b)☐ (disapproved by the Examiner.
If approved, corrected drawings			
12) ☐ The oath or declaration is object	cted to by the Examiner		
Priority under 35 U.S.C. §§ 119 and 12	20		
13) Acknowledgment is made of a	claim for foreign priorit	y under 35 U.S.C.	§ 119(a)-(d) or (f).
a)□ All b)□ Some * c)□ Non	e of:		
1. Certified copies of the p	riority documents have	been received.	
2. Certified copies of the p	riority documents have	been received in A	Application No
	International Bureau (P	PCT Rule 17.2(a)).	received in this National Stage
		·	§ 119(e) (to a provisional application).
a) The translation of the forei	ign language provisiona	al application has b	een received.
Attachment(s)	F:19.		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Re Information Disclosure Statement(s) (PTO-1)	view (PTO-948) 1449) Paper No(s)		Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-3 and 7-27, drawn to a computer implemented method and system for transforming a plurality of chromatographic clution profiles, grouped by basis of intersecting detector response values, classified in class 702, subclass 32. (If this group is elected, please see species election requirement further below).
- II. Claim 4, drawn to method for estimating the number of different single nucleotide polymorphisms (SNPs) in a plurality of same length DNA fragments, classified in class 702, subclass 12.
- III. Claims 5 and 6, drawn to a method for detecting the presence of a previously unknown SNP in a test DNA fragment, classified in class 702, subclass 12.

The inventions are distinct, each from the other because of the following reasons:

The inventions of Group I and Groups (II and III) are patentably distinct methods because each have different objectives, different uses, different reagents and different steps in methodology. Therefore the methods are distinct over one another.

The inventions of Groups II and III are patentably distinct because each has different objectives, different uses, different reagents and different steps in methodology. Group II is directed to estimating the number of different SNPs depending upon a resulting number of groups based on the transformed profile shapes; while Group III directed to a comparative test between an unknown test DNA fragment and reference elution profiles. Therefore the methods are distinct over one another.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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Species Election

This application contains claims directed to the following patentably distinct species of the claimed invention:

- Species A: Grouping by basis of intersecting profiles, claims 9, 10, 15-17, 21, 22, 25 and 26.
- Species B: Grouping by basis of clustering, claims 11, 12, 17, 18, 23, 24 and 27.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-3, 7, 8, 13, 14, 19, 20 and 25 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Conclusion

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. 1.48(b) and by the fee required under 37 C.F.R. 1.17(h).

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The CM1 Fax Center number is (703) 308-4242.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monika B. Sheinberg, whose telephone number is (703) 306-0511. The examiner can normally be reached on Monday-Friday from 9 A.M to 5 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones, can be reached on (703) 308-1152.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Patent Analyst, Chantae Dessau, whose telephone number is (703) 605-1237, or to the Technical Center receptionist whose telephone number is (703) 308-0196.

May 12, 2003

Monika B. Sheinberg Art Unit 1634

MBS

PATENT EXAMINER

Scharl Sovafc

5/12/03